

5 (amended). The method according to claim 1, wherein said lung is a human lung.

6 (amended). The method according to claim 1, wherein said stem or progenitor cells are from the same species as said lung.

7 (amended). The method according to claim 1, wherein said progenitor cells are autologous cells.

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8 (amended). The method according to claim 1, wherein said administering step is carried out by intravenous injection, intra-arterial injection, or intra-bronchial administration.

9 (amended). The method according to claim 1, wherein said stem or progenitor cells are lung cells.

10 (amended). The method according to claim 1, wherein said stem or progenitor cells are bone marrow cells.

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13 (new). An *ex vivo* method of stimulating the growth of lung alveolar surface in a lung in need thereof, comprising:
providing progenitor or stem cells capable of regenerating lung alveolar surface; and
administering said progenitor or stem cells to said lung *ex vivo* in an amount sufficient to stimulate the growth of lung alveolar surface therein.